

WHAT IS CLAIMED IS:

1. 1. A surge protector device comprising:
 2. an input for combined AC power and powerline signals;
 3. a surge protection circuit connected to the input;
 4. at least one output connected to the surge protection circuit; and
 5. a high-pass filter connected between the input and the at least one output
6. configured and arranged such that powerline networking signals can pass through the
7. surge protection device without being attenuated by the surge protection circuit.

1. 2. A surge protector device in accordance with Claim 1, wherein the input has at least two rails, the at least one output has at least two rails, and wherein the high-pass filter is connected between one rail of the input and one rail of the at least one output.

1. 3. A surge protector device in accordance with Claim 2, wherein the input includes two rails, each of the at least one output has two rails, and the high-pass filter is connected between both rails of the input and both rails of each of the at least one output.

1. 4. A surge protector device in accordance with Claim 1, wherein the high-pass filter comprises two capacitors in parallel.

1. 5. A surge protector device in accordance with Claim 4, wherein the capacitance of each of said capacitors is between about 0.001uf and about 0.1uf.

1. 6. A surge protector device in accordance with Claim 5, wherein the capacitance of each of said capacitors is between about 0.1uf and about 0.01uf.

1. 7. A surge protector device in accordance with Claim 6, wherein the capacitance of each of said capacitors is about 0.01uf.

1 8. A surge protector device in accordance with Claim 1, further comprising:
2 a housing, the high-pass filter and the surge protection circuit being in the housing.

1 9. A surge protector device in accordance with Claim 1, further comprising:
2 a powerline network adapter electrically downstream of the at least one output.

1 10. A surge protector device in accordance with Claim 1, further comprising:
2 at least one inductor connected between the input and the surge protection circuit to
3 increase impedance at a powerline networking operating frequency.

1 11. A surge protector device comprising:
2 power and powerline signal input means;
3 surge protection means connected to the input means;
4 output means connected to said surge protection means; and
5 high-pass means connected between the input and the output for passing
6 powerline networking signals through the surge protection means without being
7 substantially attenuated by the surge protection means.

1 12. A surge protector device in accordance with Claim 11, wherein the high-pass
2 means comprises two similar capacitors in parallel.

1 13. A surge protector device in accordance with Claim 12, wherein the capacitance of
2 each of said capacitors is between about 0.001uf and about 0.1uf.

1 14. A surge protector device in accordance with Claim 13, wherein the capacitance of
2 each of said capacitors is between about 0.001uf and about 0.01uf.

1 15. A surge protector device in accordance with Claim 14, wherein the capacitance of
2 each of said capacitors is about 0.01uf.

1 16. A surge protector device in accordance with Claim 11, wherein the input means
2 comprises at least two rails, the output means comprises at least two rails, and wherein
3 the high-pass means is connected between one rail of the input means and one rail of the
4 output means.

1 17. A surge protector device in accordance with Claim 16, wherein the input means
2 includes two rails, the output means has two rails, and the high-pass means is connected
3 between at least one rail of the input means and at least one rail of the output means.

1 18. A surge protector device in accordance with Claim 11, further comprising:
2 an enclosure means, the high-pass means and surge protection means being in the
3 enclosure means.

1 19. A surge protector device in accordance with Claim 11, further comprising:
2 a powerline network adapter means electrically downstream of the output means.

1 20. A surge protector device in accordance with Claim 11, further comprising:
2 an inductor means on the input means to increase impedance at a powerline networking
3 operating frequency.